

5 **SYNTHESIS OF ANTI-ESTROGENIC AND OTHER THERAPEUTIC**
 STERIODS FROM 21-HYDROXY-19-NORPREGNA-4-EN-3-ONE

ABSTRACT OF THE DISCLOSURE

10 Syntheses of steroids such as 3-hydroxy-7 α -methyl-21-[2'-methoxy-4'-
 (diethylaminomethyl)-phenoxy]-19-norpregna-1,3,5(10)triene citrate ("SR 16234") and analogs
 thereof are provided, wherein 21-hydroxy-19-norpregna-4-en-3-one serves as a starting material
 or intermediate. The latter compound may be readily prepared from estrone-3-methyl ether.
 Certain intermediates in these syntheses also have value as therapeutic agents, for example in the
15 treatment of prostate disorders such as prostatic cancer.